

**Fractional Shapes**

1. Mrs. Jones asked her class to help with a class party. She had baked a cake that was an 8 inch by 8 inch square. She had four colors of icing – yellow, blue, red, and green. She wanted to frost exactly one-fourth of the cake in each color, but she did not want to have four solid squares of each color. Find two or more ways to frost the cake by frosting rectangles. Use graph paper to show your possible cake designs.
2. Mr. Rex helped his class to make pizzas. He wanted to divide each pizza into 4ths so that each student could have ¼ of the pizza. He wanted to put one topping on each pizza. His students wanted to have more than one choice of topping. They suggested that he divide each pizza into 8 pieces so that each student had two slices with two topping choices. Here is a table showing how many slices had what toppings. Draw a pizza to show the slices and tell what fraction of the pizza has each topping.

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| **Topping** | **How many slices?** | **What fraction?** |
| pepperoni | 4 |  |
| mushroom | 2 |  |
| green pepper | 2 |  |